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# TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/599,974E

DATE: 02/11/2003 TIME: 10:56:27

Input Set : A:\EP.txt

```
3 <110> APPLICANT: The Rockefeller University
             Friedman, Jeffrey M.
             Lee, Gwo-Hwa
      5
              Proenca, Ricardo
      8 <120> TITLE OF INVENTION: DB, THE RECEPTOR FOR LEPTIN, NUCLEIC ACIDS ENCODING THE
RECEPTOR, AND USES
             THEREOF
    11 <130> FILE REFERENCE: 600-1-162CP1
     13 <140> CURRENT APPLICATION NUMBER: 08/599,974E
     14 <141> CURRENT FILING DATE: 1996-02-14
     16 <150> PRIOR APPLICATION NUMBER: US 09/586,594
     17 <151> PRIOR FILING DATE: 1996-01-16
     19 <160> NUMBER OF SEQ ID NOS: 97
     21 <170> SOFTWARE: PatentIn version 3.1
                                                             FNTERED
     23 <210> SEO ID NO: 1
     24 <211> LENGTH: 2529
     25 <212> TYPE: DNA
     26 <213> ORGANISM: Mus musculus
     28 <400> SEQUENCE: 1
     29 gggctcaggt cggcgtcgta ccagccgctg aagcggttct ccaggttcca ggcgctctcg
                                                                               60
     31 ccatgccgga tcagcaccag cttgtagctc gtgccgaatt cggcacgagg ttgctttggg
                                                                              120
     33 aatgagcaag gtcaaaactg ctctgcactc acagacaaca ctgaagggaa gacactggct
                                                                              180
                                                                              240
     35 tcagtagtga aggcttcagt ttttcgccag ctaggtgtaa actgggacat agagtgctgg
     37 atgaaagggg acttgacatt attcatctgt catatggagc cattacctaa gaaccccttc
                                                                              300
     39 aagaattatg actctaaggt ccatctttta tatgatctgc ctgaagtcat agatgattcg
                                                                              360
     41 cctctgcccc cactgaaaga cagctttcag actgtccaat gcaactgcag tcttcgggga
                                                                              420
                                                                              480
     43 tgtgaatgtc' atgtgccggt acccagagcc aaactcaact acgctcttct gatgtatttg
     45 gaaatcacat ctgccggtgt gagttttcag tcacctctga tgtcactgca gcccatgctt
                                                                              540
                                                                              600
     47 qttqtqaaac ccqatccacc cttaggtttg catatggaag tcacagatga tggtaattta
                                                                              660
     49 aagatttett gggacageca aacaatggea eeattteege tteaatatea ggtgaaatat
                                                                              720
     51 ttagagaatt.ctacaattgt aagagaggct gctgaaattg tctcagctac atctctgctg
                                                                              780
    '53 gtagacagtg tgcttcctgg atcttcatat gaggtccagg tgaggagcaa gagactggat
     55 ggttcaggag tctggagtga ctggagttca cctcaagtct ttaccacaca agatgttgtg
                                                                              840
                                                                              900
     57 tattttccac ccaaaattct gactagtgtt ggatcgaatg cttctttca ttgcatctac
                                                                              960
     59 aaaaacgaaa accagattat ctcctcaaaa cagatagttt ggtggaggaa tctagctgag
                                                                             1020
     61 aaaatccctg agatacagta cagcattgtg agtgaccgag ttagcaaagt taccttctcc
                                                                             1080
     63 aacctgaaag ccaccagacc tcgagggaag tttacctatg acgcagtgta ctgctgcaat
                                                                             1140
     65 gagcaggcgt gccatcaccg ctatgctgaa ttatacgtga tcgatgtcaa tatcaatata
                                                                             1200
     67 tcatgtgaaa ctgacgggta cttaactaaa atgacttgca gatggtcacc cagcacaatc
     69 caatcactag tgggaagcac tgtgcagctg aggtatcaca ggcgcagcct gtattgtcct
                                                                             1260
     71 gatagtccat ctattcatcc tacgtctgag cccaaaaact gcgtcttaca gagagacggc
                                                                             1320
     73 ttttatgaat gtgttttcca gccaatcttt ctattatctg gctatacaat gtggatcagg
                                                                             1380
     75 atcaaccatt ctttaggttc acttgactcg ccaccaacgt gtgtccttcc tgactccgta
                                                                             1440
     77 gtaaaaccac tacctccatc taacgtaaaa gcagagatta ctgtaaacac tggattattg
                                                                             1500
```

DATE: 02/11/2003

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/599,974E TIME: 10:56:27

Input Set : A:\EP.txt

```
79 aaagtatett gggaaaagee agtettteeg gagaataace tteaatteea gattegatat
                                                                           1560
                                                                           1620
    81 qqcttaagtg gaaaagaaat acaatggaag acacatgagg tattcgatgc aaagtcaaag
                                                                           1680
    83 totaccages tactagtate agasetetat acagtetata tagtecaggt tegetacegg
    85 cggttggatg gactaggata ttggagtaat tggagcagtc cagcctatac gcttgtcatg
                                                                           1740
                                                                           1800
    87 qatqtaaaag ttcctatqag agggcctgaa ttttggagaa aaatggatgg ggacgttact
                                                                           1860
    89 aaaaaqqaqa qaaatqtcac cttgctttgg aagcccctga cgaaaaatga ctcactgtgt
    91 agtgtgagga ggtacgtggt gaagcatcgt actgcccaca atgggacgtg gtcagaagat
                                                                           1920
    93 gtgggaaatc ggaccaatct cactttcctg tggacagaac cagcgcacac tgttacagtt
                                                                           1980
    2040
    97 atgagtaaag tgagtgctgt ggagtcactc agtgcttatc ccctgagcag cagctgtgtc
                                                                           2100
    99 atcctttcct ggacactgtc acctgatgat tatagtctgt tatatctggt tattgaatgg
                                                                           2160
                                                                            2220
    101 aagatcctta atgaagatga tggaatgaag tggcttagaa ttccctcgaa tgttaaaaag
    103 ttttatatcc acgataattt tattcccatc gagaaatatc agtttagtct ttacccagta
    105 tttatggaag gagttggaaa accaaagata attaatggtt tcaccaaaga tgctatcgac
                                                                            2340
    107 aagcagcaga atgacgcagg gctgtatgtc attgtaccca taattatttc ctcttgtgtc
                                                                            2400
    109 ctactgctcg gaacactgtt aatttcacac cagagaatga aaaagttgtt ttgggacgat
                                                                            2460
                                                                            2520
    111 gttccaaacc ccaagaattg ttcctgggca caaggactga atttccaaaa gagaacggac
                                                                            2529
    113 actctttga
     116 <210> SEQ ID NO: 2
     117 <211> LENGTH: 842
     118 <212> TYPE: PRT
     119 <213> ORGANISM: Mus musculus
     121 <220> FEATURE:
     122 <221> NAME/KEY: MISC FEATURE
     123 <222> LOCATION: (29)..(29)
     124 <223> OTHER INFORMATION: X can be any amino acid
     127 <400> SEQUENCE: 2
     129 Gly Leu Arg Ser Ala Ser Tyr Gln Pro Leu Lys Arg Phe Ser Arg Phe
     130 1
W--> 133 Gln Ala Leu Ser Pro Cys Arg Ile Ser Thr Ser Leu Xaa Leu Val Pro
     134
                    20
                                        25
     137 Asn Ser Ala Arg Gly Cys Phe Gly Asn Glu Gln Gly Gln Asn Cys Ser
                                    40
     141 Ala Leu Thr Asp Asn Thr Glu Gly Lys Thr Leu Ala Ser Val Val Lys
                                55
     145 Ala Ser Val Phe Arg Gln Leu Gly Val Asn Trp Asp Ile Glu Cys Trp
                            70
     149 Met Lys Gly Asp Leu Thr Leu Phe Ile Cys His Met Glu Pro Leu Pro
                        85
     153 Lys Asn Pro Phe Lys Asn Tyr Asp Ser Lys Val His Leu Leu Tyr Asp
                                        105
     157 Leu Pro Glu Val Ile Asp Asp Ser Pro Leu Pro Pro Leu Lys Asp Ser
                                    120
    158
                115
    161 Phe Gln Thr Val Gln Cys Asn Cys Ser Leu Arg Gly Cys Glu Cys His
                                135
     165 Val Pro Val Pro Arg Ala Lys Leu Asn Tyr Ala Leu Leu Met Tyr Leu
                                                155
                            150
     169 Glu Ile Thr Ser Ala Gly Val Ser Phe Gln Ser Pro Leu Met Ser Leu
                                            170
     170
                        165
```

# RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/599,974E

DATE: 02/11/2003 TIME: 10:56:27

Input Set : A:\EP.txt

173 174	Gln	Pro	Met	Leu 180	Val	Val	Lys	Pro	Asp 185	Pro	Pro	Leu	Gly	Leu 190	His	Met
177 178	Glu	Val	Thr 195	Asp	Asp	Gly	Asn	Leu 200	Lys	Ile	Ser	Trp	Asp 205	Ser	Gln	Thr
181 182	Met	Ala 210	Pro	Phe	Pro	Leu	Gln 215	Tyr	Gln	Val	Lys	Tyr 220	Leu	Glu	Asn	Ser
185	Thr 225	Ile	Val	Arg	Glu	Ala 230	Ala	Glu	Ile	Val	Ser 235	Ala	Thr	Ser	Leu	Leu 240
189 190	Val	Asp	Ser	Val	Leu 245	Pro	Gly	Ser	Ser	Tyr 250	Glu	Val	Gln	Val	Arg 255	Ser
194				Asp 260					265					270		
198			275	Thr				280					285			
202		290	_	Ser			295					300				
206	305			Ser		310					315					320
210				Glu	325					330					335	
214				Ser 340					345					350		
218			355	Val				360					365			
222		370		Tyr			375					380				
226	385			Leu		390					395					400
230				Val	405					410					415	
234				Pro 420					425					430		
238			435	Leu				440					445			
242		450		Leu			455					460				
246	465	_		Leu		470					475					480
250		_		Leu	485					490					495	
254		-		500					505					510		Asn
258			515					520					525			Gln
262	_	530		His			535					540				
266	545			Asp		550					555					560
269	Arg	Leu	Asp	Gly	Leu	Gly	Tyr	Trp	Ser	Asn	Trp	Ser	Ser	Pro	Ala	Tyr

## RAW SEQUENCE LISTING

DATE: 02/11/2003 PATENT APPLICATION: US/08/599,974E TIME: 10:56:27

Input Set : A:\EP.txt

```
270
                   565
                                       570
273 Thr Leu Val Met Asp Val Lys Val Pro Met Arg Gly Pro Glu Phe Trp
                                   585
               580
277 Arg Lys Met Asp Gly Asp Val Thr Lys Lys Glu Arg Asn Val Thr Leu
                              600
          595
281 Leu Trp Lys Pro Leu Thr Lys Asn Asp Ser Leu Cys Ser Val Arg Arg
282 610
                          615
285 Tyr Val Val Lys His Arg Thr Ala His Asn Gly Thr Trp Ser Glu Asp
                                          635
286 625
                      630
289 Val Gly Asn Arg Thr Asn Leu Thr Phe Leu Trp Thr Glu Pro Ala His
                   645
                                       650
293 Thr Val Thr Val Leu Ala Val Asn Ser Leu Gly Ala Ser Leu Val Asn
               660
                                   665
297 Phe Asn Leu Thr Phe Ser Trp Pro Met Ser Lys Val Ser Ala Val Glu
                               680
          675
301 Ser Leu Ser Ala Tyr Pro Leu Ser Ser Ser Cys Val Ile Leu Ser Trp
                                               700
                           695
305 Thr Leu Ser Pro Asp Asp Tyr Ser Leu Leu Tyr Leu Val Ile Glu Trp
                                           715
306 705
                       710
309 Lys Ile Leu Asn Glu Asp Asp Gly Met Lys Trp Leu Arg Ile Pro Ser
                   725
                                      730
313 Asn Val Lys Lys Phe Tyr Ile His Asp Asn Phe Ile Pro Ile Glu Lys
                                   745
314 740
317 Tyr Gln Phe Ser Leu Tyr Pro Val Phe Met Glu Gly Val Gly Lys Pro
                               760
321 Lys Ile Ile Asn Gly Phe Thr Lys Asp Ala Ile Asp Lys Gln Gln Asn
322 770
                           775
325 Asp Ala Gly Leu Tyr Val Ile Val Pro Ile Ile Ile Ser Ser Cys Val
                       790
                                           795
329 Leu Leu Gly Thr Leu Leu Ile Ser His Gln Arg Met Lys Lys Leu
                                       810
                   805
333 Phe Trp Asp Asp Val Pro Asn Pro Lys Asn Cys Ser Trp Ala Gln Gly
                                  825
    820
337 Leu Asn Phe Gln Lys Arg Thr Asp Thr Leu
    835
341 <210> SEQ ID NO: 3
342 <211> LENGTH: 2848
343 <212> TYPE: DNA
344 <213> ORGANISM: Mus musculus
346 <220> FEATURE:
·347 <221> NAME/KEY: misc feature
348 <222> LOCATION: (44)..(44)
349 <223> OTHER INFORMATION: N can be A, C, T or G
352 <220> FEATURE:
353 <221> NAME/KEY: misc feature
354 <222> LOCATION: (67)..(67)
355 <223> OTHER INFORMATION: N can be A, C, T or G
358 <220> FEATURE:
359 <221> NAME/KEY: misc_feature
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#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/599,974E

DATE: 02/11/2003 TIME: 10:56:27

Input Set : A:\EP.txt

Output Set: N:\CRF4\02112003\H599974E.raw

360 <222> LOCATION: (234)..(234) 361 <223> OTHER INFORMATION: N can be A, C, T or G 364 <220> FEATURE: 365 <221> NAME/KEY: misc feature 366 <222> LOCATION: (483)..(483) 367 <223> OTHER INFORMATION: N can be  $^{'}$  A, C, T or G 370 <220> FEATURE: 371 <221> NAME/KEY: misc feature 372 <222> LOCATION: (527)..(527) 373 <223> OTHER INFORMATION: N can be A, C, T or G 376 <220> FEATURE: 377 <221> NAME/KEY: misc feature 378 <222> LOCATION: (564)..(564) 379 <223> OTHER INFORMATION: N can be A, C, T or G 382 <220> FEATURE: 383 <221> NAME/KEY: misc feature 384 <222> LOCATION: (1237)..(1237) 385 <223> OTHER INFORMATION: N can be A, C, T or G 388 <220> FEATURE: 389 <221> NAME/KEY: misc feature 390 <222> LOCATION: (1335)..(1335) 391 <223> OTHER INFORMATION: N can be A, C, T or G 394 <220> FEATURE: 395 <221> NAME/KEY: misc feature 396 <222> LOCATION: (2038)..(2038) 397 <223> OTHER INFORMATION: N can be A, C, T or G 400 <220> FEATURE: 401 <221> NAME/KEY: misc feature 402 <222> LOCATION: (2179)..(2179) 403 <223> OTHER INFORMATION: N can be A, C, T or G 406 <220> FEATURE: 407 <221> NAME/KEY: misc feature 408 <222> LOCATION: (2182)..(2182) 409 <223> OTHER INFORMATION: N can be A, C, T or G 412 <220> FEATURE: 413 <221> NAME/KEY: misc feature 414 <222> LOCATION: (2183) .. (2183) 415 <223> OTHER INFORMATION: N can be A, C, T or G 418 <220> FEATURE: 419 <221> NAME/KEY: misc feature '420 <222> LOCATION: (2219)..(2219) 421 <223> OTHER INFORMATION: N can be A, C, T or G 424 <220> FEATURE: 425 <221> NAME/KEY: misc feature 426 <222> LOCATION: (2576)..(2576) 427 <223> OTHER INFORMATION: N can be A, C, T or G 430 <220> FEATURE:

431 <221> NAME/KEY: misc\_feature 432 <222> LOCATION: (2610)..(2610) RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/08/599,974E
DATE: 02/11/2003
TIME: 10:56:28

Input Set : A:\EP.txt

Output Set: N:\CRF4\02112003\H599974E.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:2; Xaa Pos. 29
Seq#:2; Xaa Pos. 29
Seq#:3; N Pos. 44,67,234,483,527,564/1287,1835,2038,2179,2182,2183,2219
Seq#:3; N Pos. 2576,2610
Seq#:4; Xaa Pos. 79
Seq#:5; N Pos. 160,258
Seq#:6; Xaa Pos. 14,19,25,58,67,68,84,86
Seq#:35; N Pos. 5
Seq#:39; N Pos. 55,62,72,143
Seq#:40; N Pos. 83,101,181
Seq#:41; N Pos. 193
Seq#:57; Xaa Pos. 29
Seq#:58; Xaa Pos. 29
Seq#:59; Xaa Pos. 29
Seq#:60; Xaa Pos. 79
Seq#:61; Xaa Pos. 14,19,25,58,67,68,84,86
Seq#:62; Xaa Pos. 79
Seq#:63; Xaa Pos. 14,19,25,58,67,68,84,86
```

### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 8